

**SEMINOLE COUNTY GOVERNMENT
AGENDA MEMORANDUM**

SUBJECT: Water Conservation Status

DEPARTMENT: Environmental Services **DIVISION:** Water & Wastewater

AUTHORIZED BY:  **CONTACT:** Liz Block **EXT.** 2121
Robert G. Adolphe, P.E., Director **Water Conservation Coordinator**

Agenda Date 05/13/03 **Regular** ☐ **Consent** ☐ **Work Session** ☐ **Briefing** ☒
Public Hearing – 1:30 ☐ **Public Hearing – 7:00** ☐


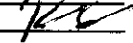
MOTION/RECOMMENDATION:

Update Board on water supply status report for Seminole County Environmental Services Department.

BACKGROUND:

Seminole County faces a challenge to provide adequate water supplies to a growing population while meeting the regulatory requirements of the St. Johns River Water Management District. Current and projected per capita consumption in the Northwest Service Area far exceeds guidelines established by SJRWMD. To enable future growth and development, per capita consumption must decrease in the Northwest Service Area.

This presentation summarizes the current water supply status, and gives an overview of current and future water conservation initiatives. Also highlighted are the reclaimed water and alternative water projects that will be recommended and brought before the Board of County Commissioners for consideration and implementation.

Reviewed by:
Co Atty: na
DFS: na
Other: na
DCM: 
CM: 

File No. BESA01

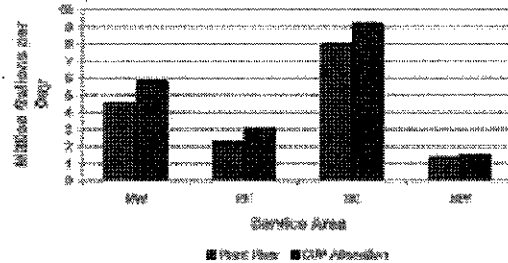
ENVIRONMENTAL SERVICES
DEPARTMENT

WATER SUPPLY STATUS REPORT

APRIL, 2003



Running Average Daily Flow (April 2002 - March 2003)
Compared to Conservative Use Permit Daily
Allocation



WATER CONSERVATION Current Program Successes

PROJECTS

- Free Irrigation Audits
- Landscaping Workshops
- Girl Scout Water Fair
- Festivals and Events
- Classroom Presentations
- High Water Users Letters - 425
- New Subdivision Builder Contacts
- Homeowners Association Presentations
- Watering Restriction Enforcement - 4000 notices, 200 fines

GIVEAWAYS

- Showerhead Exchange
- Outdoor Cons. Kits
- Toilet Cons. Kits
- Rain Gauges
- Faucet Washers
- Toilet Leak Tests

WATER CONSERVATION Future Initiatives



Water Conservation Plan

- Reclaimed Water Ordinance
- Expanded Irrigation Audit Program
- Rain Sensor Program
- Toilet Rebate Program
- More Aggressive Rate Structure
- Reclaimed Water Education Initiative

Water Conservation Ordinance

- Watering Restrictions become stand-alone
- Codifies Watering Restriction procedures
- Requires basic water conserving irrigation features
- Codifies Rain Sensor requirements

RESIDENTIAL RECLAIMED WATER PROGRAM - PHASE I

RECOMMENDED RETROFIT OF HIGH WATER USE NEIGHBORHOODS

Funding Available in CIP

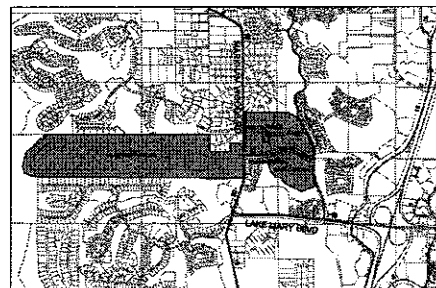
- Heathrow Woods
- Bristol Park Cost \$2,200,000
- East Camden Potable Offset 0.5 MGD
- Chestnut Hill

POTENTIAL DEVELOPER PARTNERSHIPS

- Early Stage Developments
- Cost Effective
- Funding Available from Sewer Funds



EXISTING AND PROPOSED RECLAIMED WATER MAINS



OVERVIEW OF RECLAIMED WATER MASTER PLAN

Alternative Water Supply Program Augmentation of Reclaimed Water

- Construct brackish water wells at
Northwest Regional WWTP
Greenwood Lakes WWTP
- Construct surficial aquifer wells
in specific subdivisions.

Alternative Water Supply Programs New Potable Water Supply

- After 2010, no additional fresh
groundwater withdrawals - SJRWMD
- Develop surface water supply -
St. Johns River
- Develop brackish water supply and
desalinization - Lower Floridan Aquifer

Alternative Water Supply Program Estimated Costs

- Augmentation of Reclaimed Water Supply
- New Potable Water Supply
St. Johns River & Lower Floridan Aquifer
Phase I - \$17 Million for 5 MGD
Phase II - \$55 Million for 15 MGD